

Low Complexity High-Speed Communications Transceiver

Sreen Raghavan
Thulasinath G. Manickam
Peter J. Sallaway

Abstract

A communication system is disclosed that allows high data-rate transmission of data between components. N-bit parallel data is transmitted in K-frequency separated channels on the transmission medium so as to fully take advantage of the overall bandwidth of the transmission medium. As a result, a very high data-rate transmission can be accomplished with low data-bit transmission on individual channels. A transmitter system and a receiver system are described for the communication system.